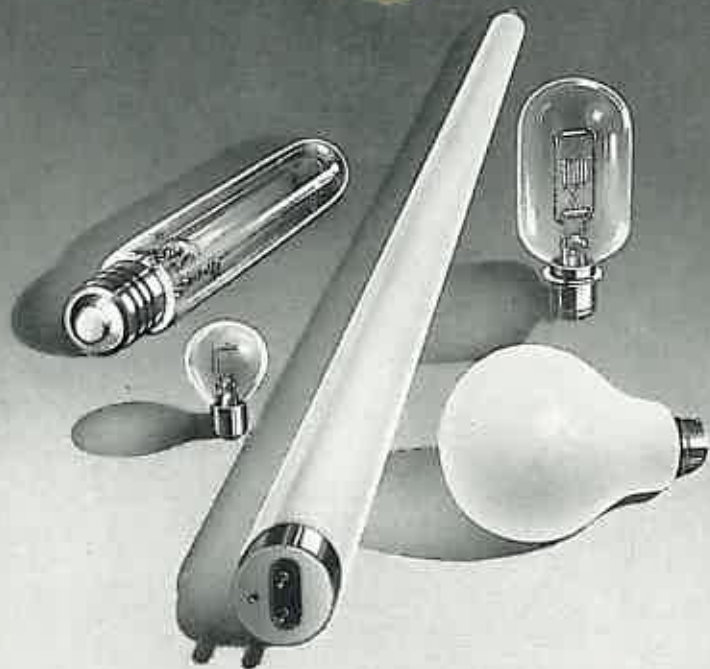


# MAZDA

## LAMP

### CATALOGUE



THE BRITISH THOMSON-HOUSTON CO., LTD.

**ERRATA**

**PURCHASE TAX FOOTNOTES**

Bus Interior Lamps Page 22 .... should read + 23% of List Price.

Projector Lamps B1 & B2 Page 27 .... should read + 26% of List Price  
up to and including 250 watts.  
Over 250 watts nil.

*In this, the first comprehensive post-war Mazda Lamp Catalogue to be issued, all lamps on our present manufacturing programme are listed. It should be understood, however, that certain types and sizes of lamps are in short supply and may not be available on demand.*

*Prices in this Catalogue  
apply only in Great Britain  
and Northern Ireland.*

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# THE BRITISH THOMSON-HOUSTON Co., Ltd.,

Electrical Engineers and Manufacturers,

LONDON - - Crown House, Aldwych, W.C.2

Telephone: Temple Bar 8040. Telegrams: Asteroidal, Estrand, London

Lighting Department, Bridle Path, Watford, Herts.

Telephone: Watford 7701-8. Telegrams: Asteroidal, Watford

## Trade Counters and Stores

Crown House, Aldwych, W.C.2. Temple Bar 1343  
3 Milner Road, Wimbledon, S.W.19. Liberty 1137

BELFAST 12 Alfred Street. Belfast 24523	ILFORD 23-25 Green Lane. Ilford 2561
BIRMINGHAM, 1 8 John Bright Street. Midland 6335	LEEDS, 1 46 Wellington Street. Leeds 31541
BLACKBURN "Old Bank," Old Bank Street, King Street. Blackburn 7093	LEICESTER 5 Campbell Street. Leicester 22811
BLACKPOOL 4-5 Cedar Square. Blackpool 2853	LIVERPOOL, 1 27-29 Stanley Street. Central 5721
BOURNEMOUTH 7 Haviland Road, Boscombe. Boscombe 2038	MANCHESTER, 3 15 Quay Street, Deansgate. Blackfriars 2691
BRADFORD 40 Godwin Street. Bradford 1205	MIDDLESBROUGH Post Office Buildings, Marton Road. Middlesbrough 2476
BRISTOL, 1 119 Victoria Street. Bristol 20111	NEWCASTLE-UPON-TYNE, 1 Ellison Buildings, Ellison Place. Newcastle 25040
CAMBRIDGE 58 King Street. Cambridge 54370	NORTHAMPTON College Street. Northampton 2981
CARDIFF 26-27 St. Mary Street. Cardiff 7171	NORWICH St. Michaels Chambers, St. Andrews Street. Norwich 22541
CHELTHENHAM 17 Grosvenor Street. Cheltenham 2776	NOTTINGHAM 71-73 Lower Parliament Street Nottingham 2061
CHESTER 5 Boughton. Chester 2746	OXFORD 90 St. Aldates. Oxford 4170
COLCHESTER Culver Street. Colchester 2843	PLYMOUTH 2 Richmond Ope, Richmond Street. Plymouth 61915
CROYDON 54 Selsdon Road. Croydon 5633	PORTSMOUTH 54 St. Vincent Street, Southsea. Portsmouth 4383
DUBLIN 25 Suffolk Street. Dublin 21379	READING 74 Oxford Road. Reading 2700
DUNDEE 17 Baltic Street. Dundee 5600	SHEFFIELD, 1 Mazda Buildings, Campo Lane. Sheffield 23686
EDINBURGH, 2 130 George Street. Edinburgh 30896	SOUTHAMPTON 33 Carlton Crescent. Southampton 3369
EXETER Trinity Mews, Southernhay. Exeter 55749	STOKE King's Chambers, Kingsway. Stoke 48768
GLASGOW, C.2 53 Pitt Street. Central 4331	SWANSEA 5 Northampton Grdns. Swansea 2151
GUILDFORD Bedford House, Bedford Road. Guildford 2788	TREFOREST Treforest Trading Estate, nr. Pontypridd. Taffs Well 165
HASTINGS 17 Dorset Place. Hastings 2734	WATFORD 75 Clarendon Road. Watford 5885
HUDDERSFIELD 7 Brook Street. Huddersfield 3291	
HULL 2 Princes Dock Chambers, Princes Dock Street. Central 36241	

Works :-

RUGBY, WILLESDEN, COVENTRY, BIRMINGHAM, SHEFFIELD, LEICESTER

## DELIVERY CONDITIONS

Within Free Delivery Areas

Any number of lamps in ALL Groups may be Packed and Delivered FREE within :-

- (a) Twenty miles radius of G.P.O., London.
- (b) Ten miles radius of G.P.O. at :-

Aberdeen	Chester	Huddersfield	Portsmouth
Accrington	Chesterfield	Hull	Preston
Ashford	Colchester	Inverness	Reading
Aylesbury	Colwyn Bay	Ipswich	Rhyl
Barrow	Cork	Kendal	Rotherham
Bath	Coventry	Lancaster	Rugby
Bedford	Croydon	Leeds	Salisbury
Belfast	Darlington	Leicester	Sheffield
Birkenhead	Derby	Lincoln	Slough
Birmingham	Doncaster	Liverpool	Southampton
Blackburn	Dorchester	Llandudno	Southend-on-Sea
Blackpool	Dublin	Luton	Southport
Bournemouth	Dundee	Maidstone	South Shields
Bradford	Eastbourne	Manchester	Stockton-on-Tees
Brighton	Edinburgh	Middlesbrough	Stoke-on-Trent
(incl. Lewes)	Exeter	Newcastle-on-Tyne	Sunderland
Bristol	Glasgow	Newport (Mon.)	Swansea
Burnley	Gloucester	Newton Abbot	Taunton
Burslem	Grimby	Northampton	Tonbridge
Cambridge	Guildford	Norwich	Trowbridge
Canterbury	Guiseley	Nottingham	Tunbridge Wells
Cardiff	Halifax	Oxford	Wakefield
Carlisle	Hanley	Peterborough	Walsall
Carmarthen	Harrogate	Plymouth	Watford
Cheltenham	Hastings	Pontypridd	Wolverhampton
			Worthing

Sound Delivery guaranteed under conditions given below.

## Outside Free Delivery Areas

(Route to be at Supplier's discretion)

- (a) Orders of £1 list value or over (excluding Purchase Tax) to one address. Packing and delivery free. Sound delivery guaranteed under conditions hereunder.
- (b) Orders of less than £1 list value (excluding Purchase Tax) to one address. Packing free, but carriage chargeable at not less than cost. Sound delivery not guaranteed, lamps being forwarded at buyer's risk.

## Sound Delivery Conditions

Where sound delivery is guaranteed, we credit or replace lamps broken in transit between our store and customer's premises, providing we are duly advised and the lamps returned carriage paid, within 7 days of date of despatch, our despatch note number to be quoted. We will not accept responsibility for safe custody of such returned lamps.

## Re-Delivery, Breakage

No transportation or breakage allowance will be given by us except on deliveries made by us direct.

## LAMP CLASSIFICATIONS

GROUP : The lamps are divided into groups as shown below :—

GROUP I—General lighting service—usually of 16 volts and above ; also Projector and Sign type lamps in all voltages, and Traction and Neon type lamps.

GROUP II—Lamps for battery service, in general below 24 volts, except Miners' Handlamps (Group V), and Flashlight lamps.

TYPE : General—VACUUM, GASFILLED, CARBON, and ELECTRIC DISCHARGE. Specific: determined by shape of bulb (i.e. Regular, Tubular, Candle, etc.), or arrangement of filament.

SIZE : Determined by wattage (i.e. 25, 40, 60, etc.) in the case of Gasfilled and Vacuum Lamps and by candle power in the case of Carbon Lamps.

Group	General Type	Specific Type
I	VACUUM	Regular { Pearl. Clear. Colour-sprayed. Traction. Sign. Clear. Colour-sprayed. Tubular. Candle. Illumination.
	GASFILLED	Regular { Pearl. Clear. Colour-sprayed. Coiled-coil. Projector. Neon (Night Light and Indicator). Traction.
	CARBON	Regular.
II	VACUUM	Bus. Indicator. Dome Light. Tubular. Festoon.
	GASFILLED	Headlight, Side, Tail, and Dash. Bus.
IV	VACUUM	Cycle Dynamo.
V	VACUUM AND GASFILLED	Miners'.
VII	VACUUM	Switchboard Indicator.
IX	ELECTRIC DISCHARGE	Mercury Vapour. Sodium Vapour. Fluorescent. Mercury Vapour with Fluorescent bulb.

## EXTRA CHARGES

The following extra charges will be made in all cases where the item specified is not already included in the price tabulations.

### GROUP I

Variation	Extra		
	V'c'um	G'filled	Carbon
OUTSIDE SPRAYING, FROSTING, and VARNISHING			
Outside frosting not permissible on General Lighting Service lamps up to and including 150 watts normally available in Pearl finish.			
For outside frosting, spraying or varnishing.	15 & 25 watt lamps ....	2d.	2d.
	40 & 60 watt lamps ....	3d.	3d.
	75 & 100 watt lamps ....	—	3d.
	150 watt ....	—	6d.
	200 watt ....	—	1/-
	300 watt ....	—	1/3
	500 watt ....	—	1/6
For outside spraying leaving a clear disc on the crown, black up to 25 watts, other colours up to 100 watts....	6d.	6d.	—
SILVERING	Prices	on application	
CAPS			
For S.B.C., S.E.S., S.C.C. in place of B.C, E.S., C.C. except for Sign lamps	2d.	2d.	2d.
For S.E.S in place of S.B.C., S.C.C.	No	extra	
<i>Applicable for metal filament lamps and carbon lamps up to and including 40 watts only.</i>			
For American Intermediate Screw Cap (E 16)	6d.	6d.	—
For G.E.S. in place of E.S. and B.C. or vice versa, including G.E.S. Clamp Cap for 1000 and 1500 watt General Lighting Service lamps	—	1/-	—
For medium Pre-focus Bell & Howell or Pathe cap for Projector lamps in place of E.S.	—	1/-	—
For large Pre-focus cap for Projector lamps in place of G.E.S.	—	2/6	—
For all other special caps for lamps up to and including 100 watts	1/-	1/-	—

## EXTRA CHARGES

The following extra charges will be made in all cases where the item specified is not already included in the price tabulations.

### GROUPS II and V

Variation	Extra
<b>COLOURING</b>	
For varnishing or outside spraying .....	10%
For outside spraying (including black) leaving a clear disc on the crown .....	6d.
<b>SILVERING</b> .....	Prices on Application
<b>FILAMENTS</b>	
For U-shape and coiled-coil filament in head-lamps .....	3d.
For horizontal filament—6 v. 36 w. and 12 v. 36 w. Headlights .....	3d.
<b>CAPS (For Group II only)</b>	
For S.B.C., B.C., E.S., and S.E.S. in place of S.C.C.	1d.
For M.C.C. cap in place of M.E.S. on 15 mm. bulbs lamps only .....	3d.
For A.S.C.C. cap in place of S.C.C. or S.B.C. cap	1d.
For centre and double contact Three-pin B.C.	3d.
For Bosch Cap .....	3d.
For M.E.S. cap (to be fitted only to 15 mm. and 19 mm. bulbs) .....	1d.
For Hollow and Cartridge caps.....	4d.
For Pre-focus caps .....	6d.

## PATENT NOTICES

### MAZDA COILED-COIL LAMPS

Mazda Coiled-Coil Lamps are made in England by The British Thomson-Houston Co., Ltd., under one or more of the following British Patents:—429364 441207 471279 549824

### MAZDA ELECTRIC DISCHARGE LAMPS

Mazda Electric Discharge Lamps are made in England by The British Thomson-Houston Co., Ltd., under one or more of the following British Patents:—

384067 391971 411266 415570 434720 445575 467432

### MAZDA LOW-PRESSURE FLUORESCENT LAMPS

Mazda Low-Pressure Fluorescent Lamps are manufactured in England by The British Thomson-Houston Co., Ltd., under one or more of the following British Patents:—

469732, 480356, 520759, 521110, 523528, 530531, 533451, 535897, 537901, 563185, 578192, and other Patents granted or pending.

### PURCHASE TAX

Wherever in this Catalogue Purchase Tax is given as 26%, the actual total cost of a single lamp may be ascertained by adding to the List Price the appropriate amount from the following schedule:—

List Price		Purchase Tax to be added	List Price		Purchase Tax to be added
Over	Not exceeding	s. d.	Over	Not exceeding	s. d.
8d.	1/2	3	5/6	6/-	1 7
1/2	1/5	4	6/-	6/6	1 8
1/5	1/8	5	6/6	6/9	1 9
1/8	1/11	6	6/9	7/6	2 0
1/11	2/4	7	7/6	8/-	2 1
2/4	2/9	8	8/-	8/6	2 3
2/9	3/3	10	8/6	8/9	2 4
3/3	3/6	11	8/9	10/-	2 7
3/6	3/9	1 0	10/-	10/9	2 10
3/9	4/3	1 1	10/9	14/6	3 9
4/3	4/6	1 2	14/6	15/-	3 11
4/6	4/9	1 3	15/-	16/-	4 2
4/9	5/-	1 4	16/-	16/9	4 4
5/-	5/6	1 5	16/9	21/9	5 8

## BTH LIGHTING INSTALLATIONS

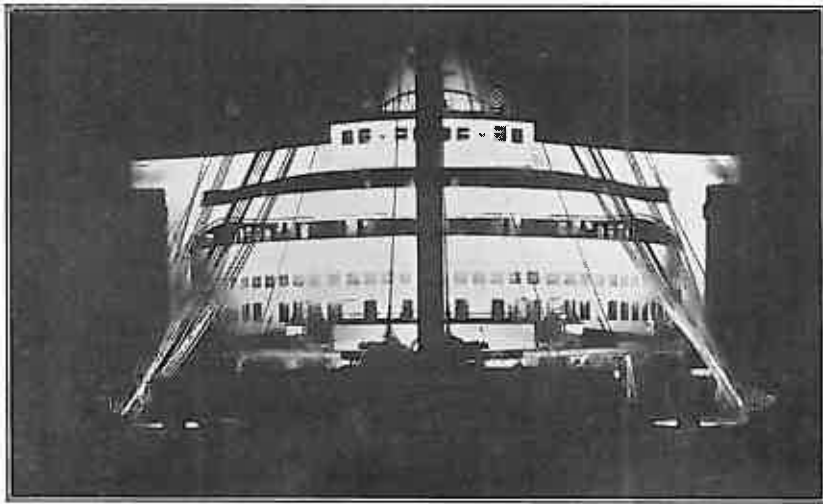


Fluorescent Lighting of Entrance Hall to Royal Society. A successful application of modern fluorescent lighting to period architecture.

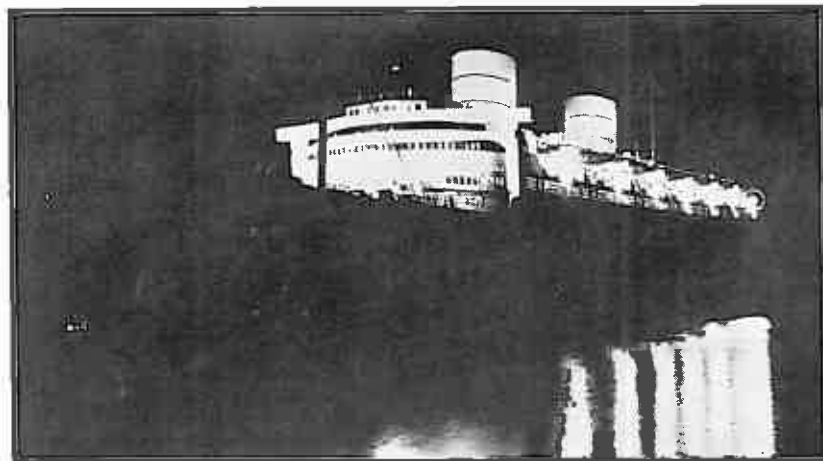


Fluorescent Street Lighting in Old Bond Street. Uses specially designed Mazdalux lanterns. This and High Street, Rugby, were the first tubular fluorescent lamp street lighting installations in this country, and the first of their kind in the world.

## BTH LIGHTING INSTALLATIONS



R.M.S. *Queen Elizabeth* floodlit by Mazda Gasfilled Lamps in Mazdalux Floodlight Projectors.

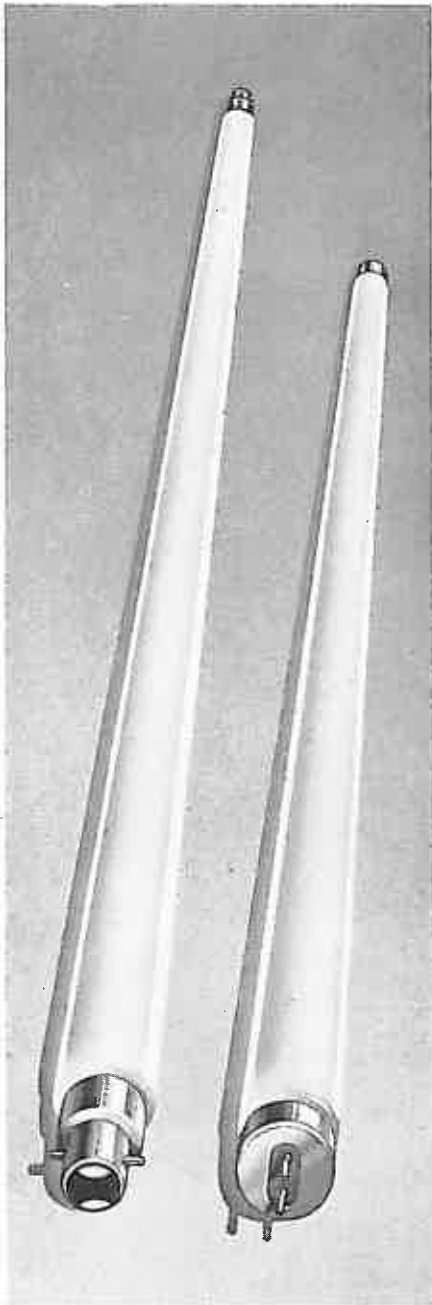


Large Engineering Erecting Shop lighted by 500 watt Mazda Lamps in Mazdalux Dispersive Reflectors.

# MAZDA FLUORESCENT LAMPS (Type MCF/U)

40 watt, 4 ft. and

80 watt, 5 ft.



## Construction and Operation.

**T**HE Mazda Fluorescent Lamp consists of a glass tube which has a filamentary electrode sealed into each end of it and a coating of fluorescent powder on its inner surface. The electric discharge passes between the electrodes through a low pressure of mercury vapour, and the resultant ultra-violet radiation excites the fluorescent powder so that it emits visible light.

Two sizes of lamp are at present being manufactured: the 80 watt 5 ft. lamp which has a B.C. cap, and the 40 watt 4 ft. lamp which has a medium Bi-pin cap. These lamps will operate on all mains voltages from 200 to 250 volts, but the actual declared voltage should be specified if chokes are ordered at the same time.

## Efficiency.

The light output in lumens of the Mazda 80 watt Fluorescent Lamp is more than three times that of the ordinary 75 watt gasfilled tungsten lamp, and the output of the 40 watt Fluorescent Lamp is approximately four times that of the ordinary 40 watt gasfilled tungsten lamp. In addition, the 80 watt and 40 watt Fluorescent Lamps have an average life which is two and a half times that of ordinary gasfilled tungsten lamps.

## Colour.

Mazda "Daylight" Fluorescent

## LAMPS (Type MCF/U)

80 watt, 5 ft.

Lamps give a light which closely matches the natural light of day and they are used extensively in industrial and commercial premises of all types, both to supplement inadequate window lighting and to give daylight seeing conditions after dark.

Mazda "Warm-White" Fluorescent Lamps are widely used in schools, offices, restaurants, and all premises where their warm light may be considered more appropriate.

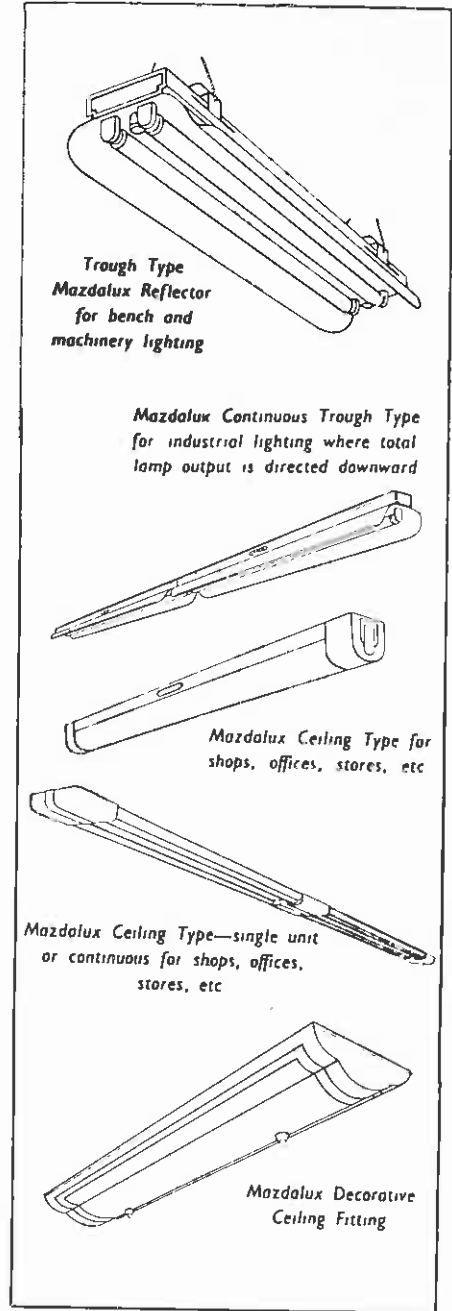
A blend of both forms of light can be made in Mazdalux fittings which take two or more lamps.

## Low Surface-brightness.

The size of the lamp is an advantage since the larger the area of the lamp tube, the lower is its surface brightness. Mazda Fluorescent Lamps have a surface-brightness which does not exceed 4.5 candles per square inch, and this means that higher levels of illumination can be achieved without risk of glare from the lamps or reflected glare from polished surfaces. The comparatively large area of the light source is also an important factor in ensuring even distribution of the light and in eliminating harsh shadows.

## Cool Operation.

There is much less heat radiated with the light from these lamps than from ordinary gasfilled lamps, so that very high intensity localized lighting can be employed where necessary without discomfort.



Trough Type  
Mazdalux Reflector  
for bench and  
machinery lighting

Mazdalux Continuous Trough Type  
for industrial lighting where total  
lamp output is directed downward

Mazdalux Ceiling Type for  
shops, offices, stores, etc

Mazdalux Ceiling Type—single unit  
or continuous for shops, offices,  
stores, etc

Mazdalux Decorative  
Ceiling Fitting

### A.C. VOLTAGES

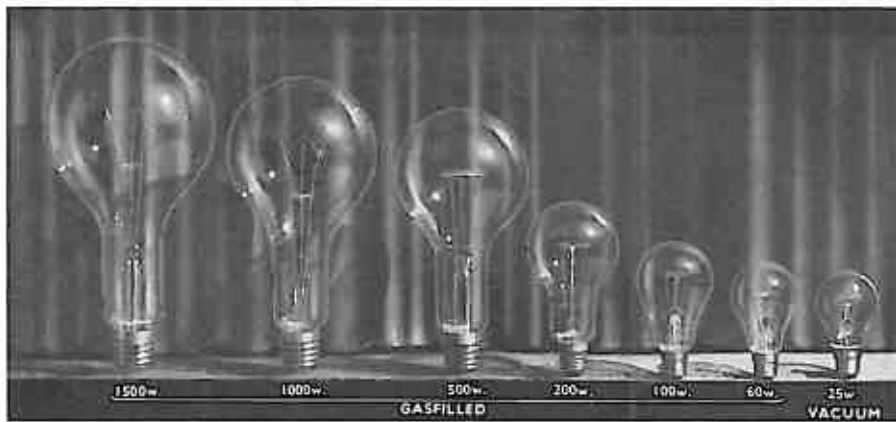
Watts	Class	Cap	Diameter	
			m/m	in.
40	MCF/U	Medium Bi-pin 35 (G2-4 × 13/35 × 10)	38	1½
80	MCF/U	B.C. (B22/25 × 26) or (B22/27 × 35)	38	1½

### 200, 250.

Length		Light Output *		Price each Daylight or Warm-White
m/m	in.	Daylight	Warm-White	
		lumens		s. d.
1214	47¾	2000	1600	17 6
1527	60	3600	2800	24 0

\* After 100 hours burning.





### MAZDA CLEAR LAMPS

**T**HE bulb of a Mazda Gasfilled Lamp is filled with an inert gas which permits the filament to be operated at a higher temperature, and consequently at a higher efficiency than is possible with a vacuum lamp.

Watts	Approximate Dimensions				Light Centre Length	Voltages										
	Diameter		Length			25	35, 50, 55	60, 65, 75	100, 110, 120, 130	150	200, 210, 220, 230, 240, 250, 260					
15	m/m	in.	m/m	in.	m/m	in.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
15	55	2.17	92.5	3.63	65	2.56	1	9	—	—	—	—	—	—	—	—
25	60	2.36	100	3.94	70	2.76	1	9	1	9	1	9	1	3	—	—
40	60	2.36	110	4.33	80	3.15	2	0	2	0	1	3	1	9	1	3
60	65	2.56	117.5	4.61	85	3.35	2	6	2	6	1	3	1	9	1	3
75	70	2.76	125	4.92	90	3.54	—	—	—	—	1	7	—	—	1	7
100	75	2.95	137.5	5.39	100	3.94	—	—	4	0	4	0	1	9	3	0
150	80	3.15	160	6.30	120	4.72	—	—	6	6	7	6	2	9	5	6
200	90	3.54	178	7.00	133	5.24	—	—	8	0	9	0	4	6	7	6
300	110	4.33	233	9.17	178	7.00	—	—	11	0	12	0	8	0	10	6
500	130	5.12	267	10.51	202	7.95	—	—	14	6	15	6	10	6	13	0
750	150	5.91	300	11.81	225	8.86	—	—	19	3	20	0	15	0	19	0
1000	150	5.91	300	11.81	225	8.86	—	—	—	—	—	—	16	0	19	0
1500	170	6.69	335	13.19	250	9.84	—	—	—	—	—	—	22	6	26	3

### VACUUM

15	55	2.17	92.5	3.63	65	2.56	—	—	1	9	1	3	1	9	1	3
25	60	2.36	100	3.94	70	2.76	—	—	—	—	—	—	1	9	1	3

Cap regularly supplied 15—150 watts B.C. (B 22/25 × 26), 200 watts E.S. (E 27/25) 300-1500 watts G.E.S. (E 40/45).

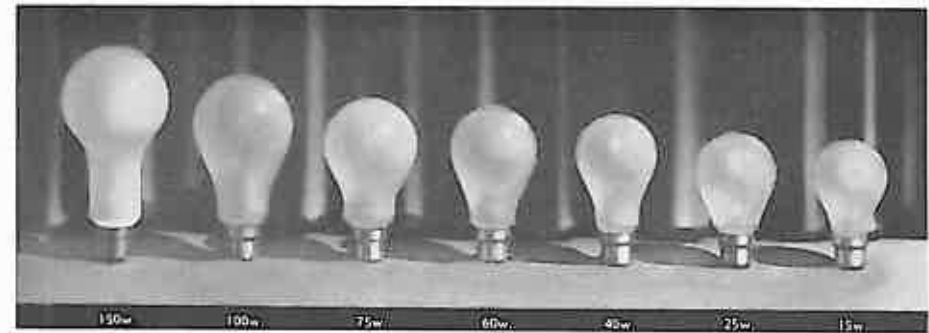
Purchase Tax + 26% of List Price up to 250 watts. Over 250 watts, no Purchase Tax.

### MAZDA INFRA-RED INDUSTRIAL (I.R.I.) LAMPS

Designed for burning two in series on standard voltages between 200/260.

Watts	Approximate Dimensions		Cap	Volts	Clear	Pearl	Internally Silvered	
	Diameter	Length						
250	m/m	m/m	E.S.	100/130	s. d.	s. d.	s. d.	
250	90 ± 1	178 ± 5.5						7
250	125 ± 1.5	177 ± 6.5	E.S. (Cementless)	100/130	—	—	11	6

Note:—Where lamps are ordered as part of a new installation of Infra-Red equipment, no Purchase Tax is payable. Lamps ordered as replacements carry 26% Purchase Tax.



### MAZDA PEARL LAMPS

**T**HE inside frosting of the Mazda Pearl Lamp diffuses the light and prevents glare, while the amount of light absorbed by the frosting is practically negligible. As the outside surfaces of the bulbs are smooth glass they are as easy to clean as clear lamps.

These lamps in 40, 60, 75, and 100 watt sizes, 200-260 volts can be supplied with the famous coiled-coil filament. For the same current consumption, they give up to 20% more light than ordinary gasfilled lamps.

Watts	Approximate Dimensions				Light Centre Length	Voltages										
	Diameter		Length			25	35, 50, 55	60, 65, 75	150	100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260						
15	m/m	in.	m/m	in.	m/m	in.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
15	55	2.17	92.5	3.63	65	2.56	1	9	1	9	1	9	1	9	1	9
25	60	2.36	100	3.94	70	2.76	1	9	1	9	1	9	1	9	1	9
40	60	2.36	110	4.33	80	3.15	2	0	2	0	2	0	1	9	1	3
60	65	2.56	117.5	4.61	85	3.35	2	6	2	6	2	6	1	9	1	3
75	70	2.76	125	4.92	90	3.54	—	—	—	—	—	—	—	—	1	7
100	75	2.95	137.5	5.39	100	3.94	—	—	4	0	4	0	3	0	1	9
150	80	3.15	160	6.30	120	4.72	—	—	—	—	—	—	—	—	2	9

\* 200-260 volts only. † Vacuum only. †† Gasfilled 100/130 volts. Vacuum 200, 260 volts. Cap regularly supplied B.C. (B 22/25 × 26). Purchase Tax + 26% of List Price.

### MAZDA CANDLE LAMPS

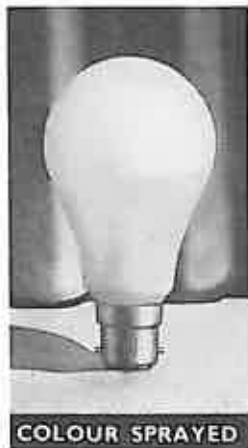
PLAIN (Vacuum)

Watts	Approx. Dims.		Cap	Voltages						
	Diam. m/m ± 1	Length m/m ± 5		50	60, 65, 75	100, 110, 120, 130	210, 220, 230, 250, 260			
25	38	122	B.C. (B 22/25 × 26) S.B.C. (B 15/26 × 22)	s. d.	s. d.	s. d.	s. d.			
				4	0	4	6	3	6	3

Purchase Tax + 26% of List Price.



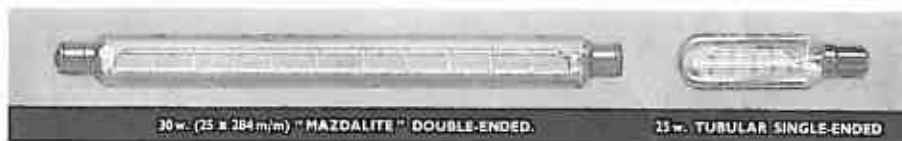
## MAZDA COLOUR-SPRAYED LAMPS



Watts	VOLTAGES					
	100, 110, 120, 150		200, 210, 220, 230, 240, 250, 260		200, 210, 220, 230, 240, 250, 260	
	SINGLE COIL			COILED COIL		
<b>Vacuum</b>						
15	s.	d.	s.	d.	s.	d.
25	1	5	1	5	—	—
<b>Gasfilled</b>						
25	1	5	—	—	—	—
40	1	6	1	6	1	9
60	1	6	1	6	1	9
75	1	10	1	10	1	11
100	2	0	2	0	2	1
150	3	3	3	3	—	—
200	5	6	5	6	—	—
300	9	3*	9	3*	—	—
500	12	0*	12	0*	—	—

\* White only. Caps and Dimensions are the same as Clear Lamps.

Supplied in the following standard colours: Red, Blue, Green, and Amber (wholly only) up to 100 watts. Black up to 25 watts.



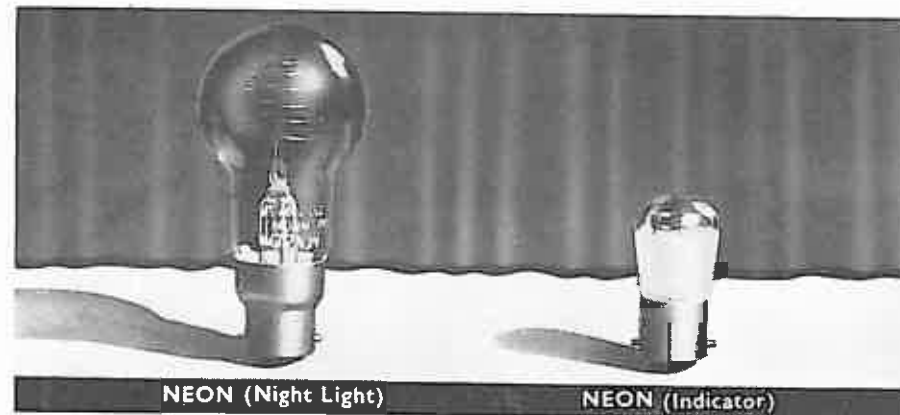
30 w. (25 x 284 m/m) "MAZDALITE" DOUBLE-ENDED.

15 w. TUBULAR SINGLE-ENDED

## MAZDA TUBULAR LAMPS

SINGLE-ENDED (Vacuum)							
Watts	Approx. Dimens.		Cap	Voltages			
	Diam. m/m	Length m/m		50	60, 65, 75	110, 120	210, 220, 230, 240, 250, 260
10	25	63	B.C. (B 22/21)	s. d.	s. d.	s. d.	s. d.
	25	63*	S.B.C. (B 15d/17)	4 0	4 6	3 6	—
25	25	86	B.C. (B 22/21)	s. d.	s. d.	s. d.	s. d.
	25	92	S.B.C. (B 15/25 x 18)	4 0	4 6	3 6	3 6
	25	94	S.E.S. (E 14/27 x 18)	4 0	4 6	3 6	3 6
<b>"MAZDALITE" DOUBLE-ENDED (Vacuum)</b>							
30	25	221 or 284	C.C. (S 15s)	—	—	5 0	5 0
60	25	284		—	—	5 9	5 9

\* Morse. 25 and 10 watt lamps clear finish.  
For S.C.C. (B15s/17), E.S. (E27 25 x 23) and C.C. (B 22s/21) for 25 watts only, 3d. each extra.  
Purchase Tax + 20% of List Price.



## MAZDA NEON LAMPS

### TYPE "N" (Neon Night Light)

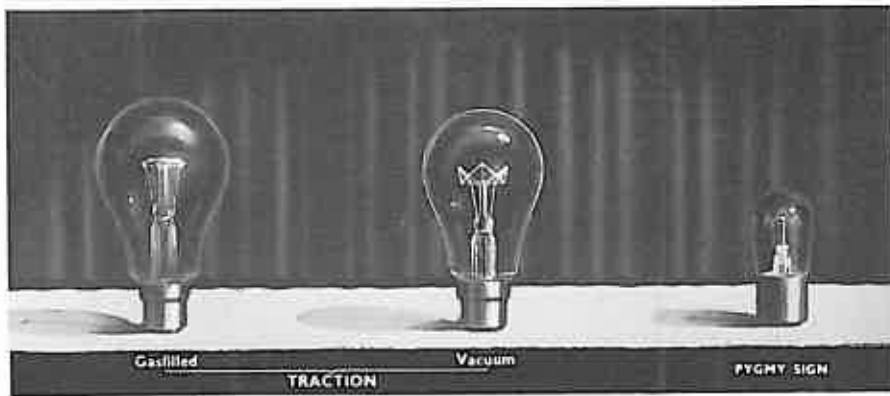
THESE lamps are suitable for the continuous and subdued illumination of corridors, halls, nurseries, sickrooms, etc.

Watts	Cap	Approximate Dimensions				Voltages
		Diameter		Length		
		m/m	in.	m/m	in.	200/220, 230/240, 250/260
5	B.C. (B22/31 x 30) or E.S. (E 27)	56	2.40	125	4.89	s. d. 4 0

## MAZDA NEON INDICATOR

Watts	Volts	Approximate Dimensions				Cap	Price each
		Diameter		Max. Length			
		m/m	in.	m/m	in.	s. d.	
<b>Type "I"</b>							
0.5	100, 110, 120, 130, 200/220, 230/240, 250/260	28	1.09	56	2.21	B.C. (B 22/21)	3 6†
		28	1.09	58	2.28		
		18	0.71	54	2.12	S.B.C. (B15/25 x 18)	
		18	0.71	56	2.21	S.E.S. (E14/27 x 18)	
<b>POLARITY</b>							
0.5	400/650, 110/750	20	0.78	79	3.12	Special	5 6
		20	0.78	79	3.12	Special	5 9

† May be supplied Colour Sprayed, 2d. each extra.  
Purchase Tax not chargeable.



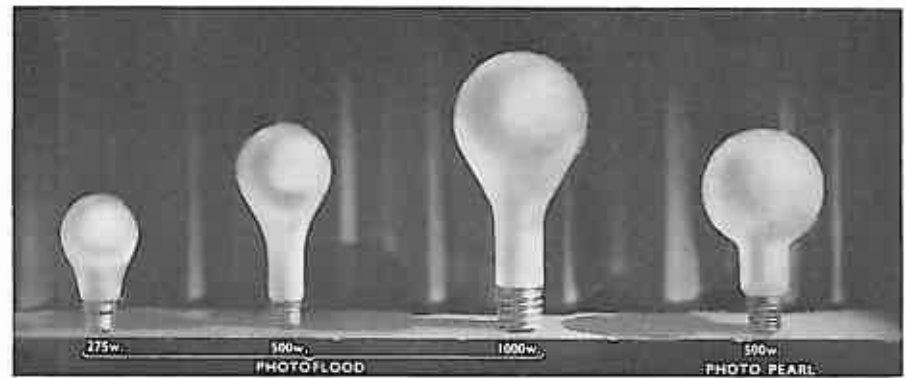
### MAZDA SIGN LAMPS

Watts	Approx. Dimensions				Cap	Voltages												
	Diameter		Length			25	50	60, 65, 70		110, 130		150	210, 230, 250					
	m/m	in.	m/m	in.				s.	d.	s.	d.		s.	d.	s.	d.		
<b>CLEAR</b>																		
15	28	1-10	56	2-20	B.C. (B 22/21) E.S. (E 27) S.B.C. (B15/25 × 18) S.E.S. (E14/27 × 18)	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.			
			58	2-28		2	0	2	0	2	0	1	5	2	0	1	5	
			62	2-44														
			64	2-53														
<b>OUTSIDE SPRAYED (Wholly only) Black, White, Red, Blue, Green, Amber</b>																		
15	28	1-10	56	2-20	B.C. (B 22/21) E.S. (E 27) S.B.C. (B15/25 × 18) S.E.S. (E14/27 × 18)													
			58	2-28		2	2	2	2	2	2	1	7	2	2	1	7	
			62	2-44														
			64	2-53														

### MAZDA TRACTION LAMPS SERIES BURNING

Watts	Amps.	Approximate Dimensions				Voltages: 100, 110, 120, 130					
		Diameter		Length		Pearl	Clear	Sprayed			
<b>GAS FILLED</b>											
40	0-35	m/m	in.	m/m	in.	s.	d.	s.	d.		
		60	2-36	110	4-33	1	6*	1	6*	1	9
60	0-52	65	2-56	117-5	4-61	1	6*	1	6*	1	9
		<b>VACUUM</b>									
40	0-35	60	2-36	110	4-33	1	6	1	6	—	

Caps regularly supplied B.C. (B 22/25 × 26), E.S. (E 27/25). Purchase Tax + 26% of List Price.  
 \* With fusible cut-out E.S. (E 27/25) Cap, 40 v. and 50 v. only, 3d. each extra.



### MAZDA PHOTOGRAPHIC LAMPS

#### PHOTO FLOOD

**M**AZDA Photo Flood Lamps for use on lighting circuits, provide a ready means of obtaining a large amount of light of high photographic efficiency for a low current consumption. They are invaluable to the home photographer and cinematographer, and greatly facilitate the operations of commercial photographers in studio and in out-of-studio work.

Volts	Watts	Cap	Approximate Dimensions				Price each
			Diameter		Length		
			m/m	in.	m/m	in.	
100/110 200/210 220/230 240/250	275	B.C. (B 22/25 × 26) or E.S. (E 27/25)	65	2-56	117-5	4-59	s. d. 2 0
			80	3-15	160	6-30	6 0
	500	E.S. (E 27/25)	100	4-34	233	9-17	15 0
				90	3-53	178	
110	1000	G.E.S. (E 40/45)					

#### PHOTO PEARL

**M**AZDA Photo Pearl provide the ideal form of illumination for the advanced amateur and professional photographer. They give a brilliant yet soft light of excellent photographic efficiency, due to special design of the filament and bulb finish, and are most economical in use.

Volts	Watts	Cap	Approximate Dimensions				Price each
			Diameter		Length		
			m/m	in.	m/m	in.	
110, 210, 230, 250	500	E.S. (E27/45 × 38)	100	4-34	175	6-86	s. d. 20 0

Purchase Tax not chargeable for lamps on this page.

## MAZDA CAR BULBS GASFILLED SINGLE FILAMENT HEADLIGHTS

Standard Caps S.C.C. (B15s/17) Bulbs : Round or Pear

Volts	Watts	Dimensions m/m			Filament Shape	Price each	
		Diam.	Length	L.C.L. ± 1		s.	d.
4	8	38 ± 2	56 ± 4 (B15s/17) or 59 (B15s/21)	28.5	Line	4	0
6	18					3	0
6	24					3	0
6	30					3	9
6	36					3	0
12	24					3	0
12	36				4	6	
12	48				5	6	
12	60				5	6	
24a	36				3	9	
24a	60				6	0	

(a) For S.B.C. (B15d/17) or B.C. (B22/21), No extra.  
† For horizontal filament, 3d. each extra.



### GASFILLED DOUBLE FILAMENT HEADLIGHTS

Volts	Watts	Cap	Dimens. m/m		Price each	
			Diam.	Length	s.	d.
6	18 & 18	S.B.C. (B15d/17)	38 ± 2	56 ± 4	4	6
6	24 & 24				4	2
6	30 & 30				4	6
6	36 & 36				4	2
12	24 & 24				4	6
12	36 & 36				4	6



Volts	Watts	Dimensions m/m		Price each		Volts	Watts	Dimensions m/m		Price each	
		Diameter	Length	s.	d.			Diameter	Length	s.	d.
<b>Gasfilled Side, Tail, and Dash Lights†</b>						<b>Vacuum Indicator Lamps*</b>					
4	3	18 ± 1	32.5 ± 2.5	2	3	6d	3	15 ± 1	27.5 ± 1.5	1	6
6	3			1	4	8	1.6			2	3
6	6			1	7	12	1.2			2	6
12b	6			1	4	12d	2.2			1	6
24a	6			2	3	16	3			2	3
<b>Stoplights ††</b>						<b>Vacuum Tubular Festoon Lamps**</b>					
6c	3 & 18	25 ± 1	46 ± 2.5	3	0	6	3	7.5 ± .5	35.5 ± 1	2	3
12	6 & 24			3	9	6	6	11 ± .5	38 ± 1	2	7
						12	3	7.5 ± .5	35.5 ± 1	2	3
						12	6	11 ± .5	38 ± 1	2	7
						24	6	11 ± .5	38 ± 1	3	0

† S.C.C. (B15s/17) (B15s/21). †† S.B.C. (B15d/17). \*M.E.S. (E10/13). \*\* Double Capped.  
(a) May also be supplied in 22 mm bulb and/or V Filament. (b) 15 m/m diam. bulb and M.C.C. cap 2/-.  
(c) S.B.C. (B15d/19) with offset pins 3d. extra. (d) May also be supplied in 11 m/m bulb diam. O.L 23 ± 1 m/m  
Purchase Tax 23% on all List Prices on this page.

## MAZDA CAR BULBS "REGULATION" HEADLIGHTS "U" Filament Patent No. 352063

**T**HIS bulb, when correctly set, focused, and maintained in an ordinary non-dipping, head-lamp complies with M.O.T. Statutory Rules and Orders, 1936, No. 392, Road Traffic and Vehicles.

Mazda "Regulation" Bulbs provide a flat beam complying with the law and giving ample light for the average motorist. The Single "U" Filament Bulb gives a safe light without dipping or manipulation. The Double Filament Bulb provides in addition an alternative beam covering the tree tops, etc., for occasional use at high speeds.



Volts	Watts	Cap	Approximate Dimensions				Price clear	
			Diameter		Length		s.	d.
			m/m	in.	m/m	in.		
6	18	S.C.C. (B 15s/17)	38	1.50	56	2.24	3	3
6	24		38	1.50	56	2.24	3	3
6	30		38	1.50	56	2.24	4	0
6	36		38	1.50	56	2.24	4	0
12	24		38	1.50	56	2.24	3	3
12	36		38	1.50	56	2.24	3	3
12	48		38	1.50	56	2.24	4	9
12	60		50	1.96	63	2.46	5	9
24a	36		38	1.50	56	2.24	4	0
24a	60		50	1.96	63	2.46	6	3

(a) For S.B.C. (B 15d/17) or B.C. (B 22/21), No extra.

**D**DOUBLE filament "Regulation" Headlight bulbs are now available and may be described as follows:—

This new bulb is a development of the well-known Mazda Single "U" Filament Regulation lamp, which provides a flat top beam complying with the M.O.T. Regulations. The "U" Filament is now combined with a horizontal "V" Filament so as to provide the maximum illumination for high speeds on occasions when the road is clear, with a flat topped beam for normal running.



Volts	Watts		Cap †	Approximate Dimensions				Price clear	
	Reg'n Light	Full Light		Diameter		Length		s.	d.
				m/m	in.	m/m	in.		
6	18	18	S.B.C. (B15d/17)	38	1.50	56	2.24	4	9
6	24	24		38	1.50	56	2.24	4	5
6	30	30		38	1.50	56	2.24	4	9
6	36	36		38	1.50	56	2.24	4	5
12	24	24		38	1.50	59	2.31	4	9
12	36	36		38	1.50	59	2.31	4	9

† For Bosch Cap. 3d. each extra.

Purchase Tax 23% on all List Prices on this page.

## MAZDA DYNAMO LAMPS

For Cycle Sets

Volts	Amps.	Cap	Approx. Dimensions		Finish	Price each	
			Diameter			s.	d.
			m/m	in.			
<b>HEADLAMPS</b>							
4	0.45	S.C.C. (B15s/17)	18	0.71	Clear	1	4
6	0.3		18	0.71	"	1	4
6	0.5		18	0.71	"	1	4
8	0.15		18	0.71	"	1	4
8	0.45		15	0.59	"	1	4
8	0.5	15	0.59	"	1	4	
10	0.4	M.E.S. (E10/13)	15	0.59	"	1	4
10	0.45		15	0.59	"	1	4
12	0.23		18	0.71	"	1	4
6	0.3		15	0.59	"	0	9
6	0.45		15	0.59	"	0	9
6	0.5	15	0.71	"	0	9	
<b>TAIL LAMPS</b>							
1.5	0.15	M.E.S. (E10/13)	15	0.59	Clear	0	9
2.5	0.25		15	0.59	"	0	9
3.5	0.15		15	0.59	"	0	9
4.0	0.04		15	0.59	"	0	9
6.0	0.04		15	0.59	"	0	9
6.0	0.3		15	0.59	"	0	9
8.0	0.05		15	0.59	"	1	4
10.0	0.05		15	0.59	"	1	4

Purchase Tax + 23% of List Price.

## BUS INTERIOR LAMPS

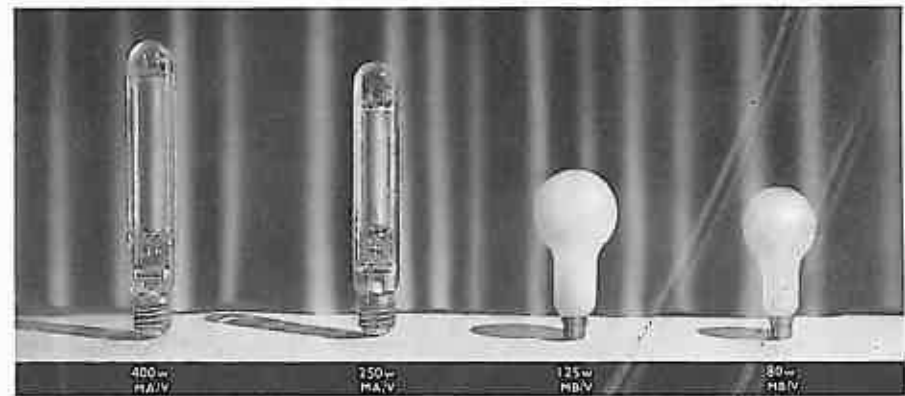
Volts	Watts	Cap	Approximate Dimensions				Price each	
			Diameter		Length		s.	d.
			m/m	in.	m/m	in.		
12	12	B.C. (B22/21 × 26) or S.B.C. (B15d/17)	38	1.5	55	2.15	2	4
24	12		or	or	or	or	2	9
24	20		50	1.96	56	2.21	2	9

Purchase Tax + 22% of List Price.

## MAZDA VACUUM POLICE LAMPS

Volts	Amps.	Approx. Dimensions		Cap	Price each	
		Diameter m/m	Length m/m		s.	d.
2	0.75	18	28	Wootton (B 9.5s/11)	2	6
2	0.75	15	27.5	M.E.S. (E 10/13)	2	6

Purchase Tax + 23% of List Price.



## MAZDA ELECTRIC DISCHARGE LAMPS (Mercury Vapour)

THESE lamps find their principal applications in street lighting, flood-lighting, and industrial lighting.

The lamp consists of two glass envelopes, the space between the inner and outer envelope being for heat retention purposes. The electrodes, which require no separate heating transformers, are mounted one at each end of the inner tube and are heavily coated to give a high electronic emission when incandescent. A third electrode situated close to one of the main electrodes and connected to the mains through a series resistance serves to stimulate conduction at starting.

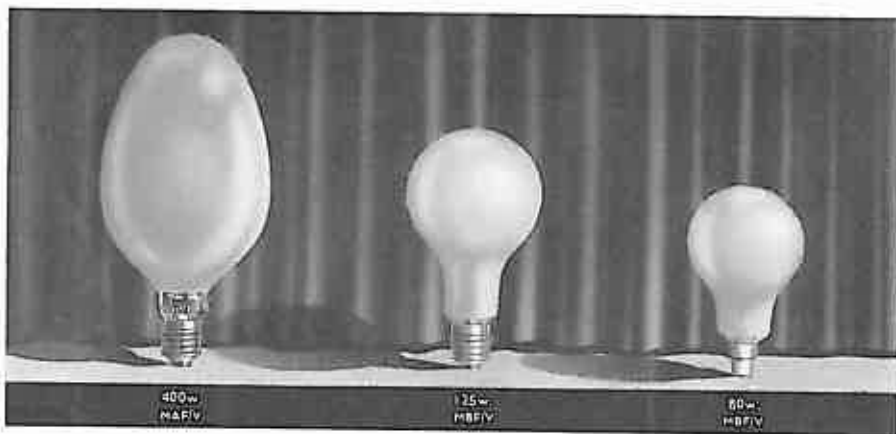
Each lamp requires a choke in series with it, to control the current passing, since the lamp has no electrical resistance of its own, and in some cases certain other auxiliary equipment is desirable, such as a condenser connected across the mains where power-factor correction is required.

Watts	Class	Cap	A.C. Voltages	Initial Light Output Lumens	Appx. Dimens.		Light Centre Length m/m	Price each	
					Diam. m/m	Length m/m		s.	d.
80	MB/V	3-pin B.C. (B 22/31 × 30)	200/250	3040	80	160	120	35	0
125				5250	90	178	133	40	0
250	MA/V	G.E.S. (E 40/45)	100/130	8500	51	290	170	48	0a
9000									
16000									
400			200/250	18000	51	330	190	52	6a

Purchase Tax not chargeable.

(a) Soft Glass Envelope only.

IMPORTANT NOTE.—Mazda Electric Discharge Lamps listed on page 23, 24 and 25 are made to operate only with lamp auxiliary gear manufactured or approved by The British Thomson-Houston Co., Ltd.



### MAZDA ELECTRIC DISCHARGE LAMPS (Mercury Vapour with Fluorescent bulb)

THE light from the ordinary mercury discharge lamp, because of the small emission of red light, has a distorting effect upon certain colours. It is impossible, for instance, to distinguish between reds and various shades of brown. This mercury vapour lamp with fluorescent bulb has been developed to meet requirement where some degree of colour rendering is important.

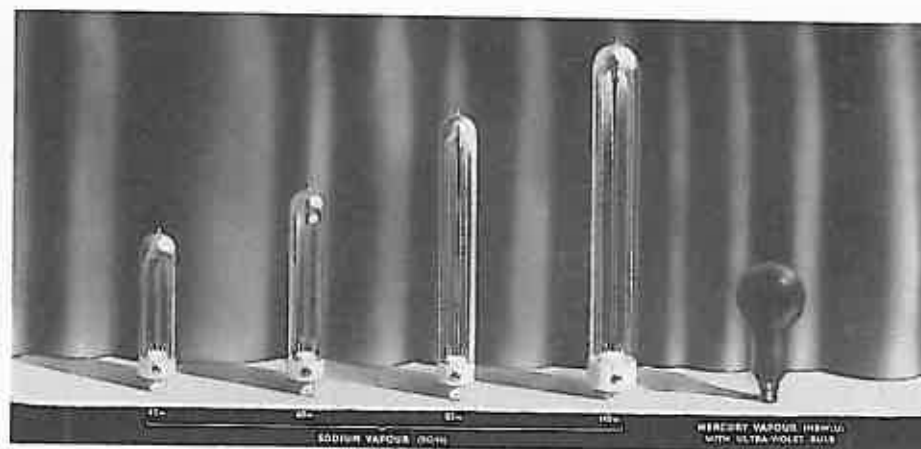
The mercury vapour discharge tube is mounted in an enlarged outer jacket, the inner surface of which is coated with powder which fluoresces under ultra-violet radiation from the inner lamp. This fluorescent radiation provides colour correction, by adding both red and middle blue light.

The electrical characteristics of these lamps are similar to the standard Mazda mercury vapour lamps in that they require to be operated on alternating current with a standard choke and, if desired, a condenser for power factor correction.

While the degree of colour correction does not render the light emitted from the lamp equivalent to daylight, it is nevertheless much more pleasing than uncorrected mercury light.

Watts	Class	Cap	A.C. Voltages	Initial Light Output Lumens	Approx. Dimens.			Light Centre Length m/m	Price each	
					Overall Diam. m/m	Overall Lgth. m/m	Neck Diam. m/m		s.	d.
80	MBF/V	3-pin B.C. (B22/31 x 30) G.E.S. (E 40/45)	200/210	3040	110	178	50	123	43	0
125				5250	130	233	52	167	52	6
400 (Iso-thermal)	MAF/V	G.E.S. (E 40/45)	200/230 240/250	15200	165	335	50	—	72	6

Purchase Tax not chargeable.



### MAZDA ELECTRIC DISCHARGE LAMPS (Sodium Vapour)

THESE sodium vapour electric discharge lamps are primarily designed for street lighting. They consist of two separate components, an inner arc tube bent into a "U" shape and an outer envelope which is a double-walled vacuum flask.

Some form of auxiliary gear is necessary to limit and stabilize the current when the lamp is operated. For this purpose, a high reactance transformer is necessary. The light given is monochromatic and orange-yellow in colour.

Watts	Class	Approximate Dimensions †			Cap (Ceramic)	Initial Light Output Lumens	A.C. Voltages 100 250			
		Diam. m/m	Length m/m	L.C.L. m/m			Without Jacket		With detach. Jacket Clear	
45	SO <sub>2</sub> H	50	238	140	B 22/s	2500	s.	d.	s.	d.
60		50	300	170	B 22/s	3900	43	6	55	0
85		50	415	230	B 22/s	6100	53	6	66	0
140		65	518	280	B 22/m	10000	65	0	80	3
							82	6	99	6

† Including Jacket.

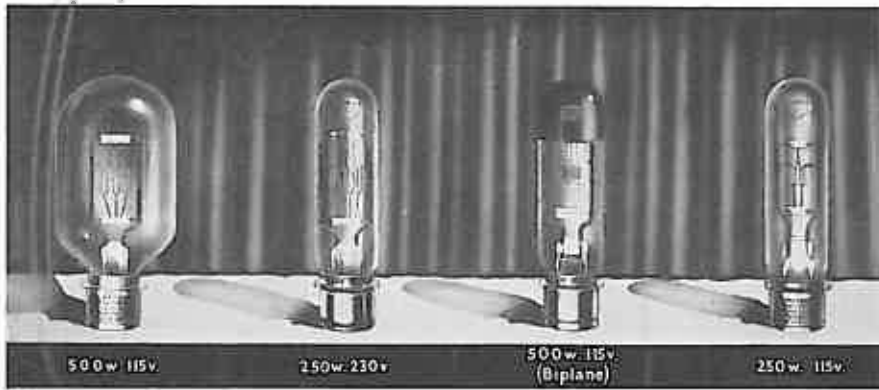
### MAZDA ELECTRIC DISCHARGE LAMP (Mercury Vapour with Ultra Violet Filter Bulb)

This special lamp has a highly efficient source of near ultra-violet radiation with a minimum of visible light, and has many interesting properties. The most important of these is its power to excite fluorescence and phosphorescence in many substances. Where identification is almost impossible in visible light, many substances can easily be identified by means of such fluorescence.

The lamp, with the exception of the outer envelope is similar to the ordinary 125 watt Mazda mercury vapour lamp.

Watts	Class	Cap	A.C. Voltages	Approx. Dimensions		Price each	
				Diameter m/m	Length m/m	s.	d.
125	MBW/U	3-pin B.C. (B 22/31 x 30)	200/250	90	178	63	0

Purchase Tax not chargeable.



## MAZDA PROJECTOR LAMPS

### BRITISH STANDARD

#### Class A I

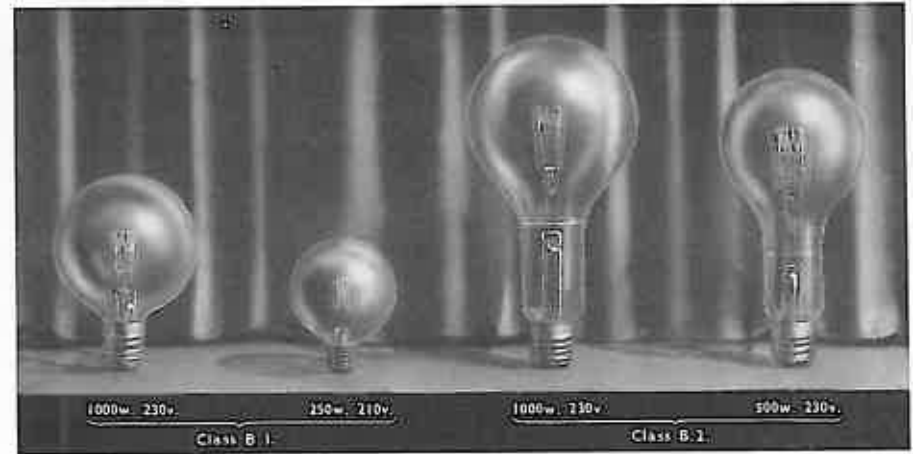
FOR base-down burning in Cinema Projectors, Home Cinema Apparatus, Advertising Projectors, Photo-enlarging Apparatus, etc. They can be brought close to the lens and by use of a short focus condenser an unusually large proportion of the light can be transmitted. For the home cinema, the introduction of the prefocus cap has reduced focusing difficulties to a minimum. Burning position: Vertical Cap down.

#### Vertical Grid Filament

#### Tubular Bulb

Volts	Watts	Cap	Approx. Dimensions		L.C.L.	Price each
			Dia. m/m	Ov. Length m/m		
50	25	S.C.C. (B15s/21)	17 max.	60 max.	29 ± 2	s. d. 4 3†
115	50	S.C.C. (B 15s)	25 ± 1	76 ± 3	34.5 ± 2	6 6†
12	100	Med. Pre-focus (P28/25)	25 ± 1	133 ± 7	55.5 ± 0.5	11 9†
30(b)	100	" "	25 ± 1	133 ± 7	55.5 ± 0.5	11 9†
115, 200, 210, 220, 230, 240, 250	100	" "	25 ± 1	133 ± 7	55.5 ± 0.5	11 9†
50(c)	250	" "	32 ± 2	133 ± 7	55.5 ± 0.5	22 0†
115, 200, 210, 220, 230, 240, 250	250	" "	32 ± 2	133 ± 7	55.5 ± 0.5	21 0†
115	300a	" "	32 ± 2	133 ± 7	55.5 ± 0.5	26 0††
115(d)	500a	" "	32 ± 2	133 ± 7	55.5 ± 0.5	33 9††
115, 200, 210, 220, 230, 240, 250	500	" "	64 ± 2	133 ± 7	55.5 ± 0.5	25 0†
115(d)	750a	" "	38 ± 2	133 ± 7	55.5 ± 0.5	38 9††
30	900	Large Pre-focus (P40/41)	64 ± 2	235 ± 10	84 ± 0.5	37 6†
115, 200, 210, 220, 230, 240, 250	1000	" "	64 ± 2	235 ± 10	84 ± 0.5	32 6†

(a) Tips black sprayed. Forced cooling necessary so that no part of the wall of the bulb exceeds a temperature of 500°C. (b) Offset filament. (c) Central filament. (d) Biplane filament.  
Objective Average Life: † 25 hours, † 50 hours.  
Purchase Tax + 26% of List Price up to 750 watts. Over 750 watts no Purchase Tax.



## MAZDA PROJECTOR LAMPS

### BRITISH STANDARD

#### Class B I

THESE lamps are made with concentrated bunch filaments of small area and are particularly suitable for use in conjunction with parabolic mirrors. Employed generally for the floodlighting of tall buildings, hoardings, signs, etc., and may also be used for stage and theatre spotlighting where long life and reliability are of chief importance.

Class B 1 lamps may be burned in any position, except within 45° of the cap-up position.

#### Bunch Filament

#### Round Bulb

Ratings		Cap	Dimensions		L.C.L.*	Price each
Volts	Watts		Diameter m/m	Ov. Length m/m		
115, 200, 210, 220, 230, 240, 250	100	E.S. (E27/25)	80 ± 2	115 ± 10	75 ± 5	s. d. 9 0
115, 200, 210, 220, 230, 240, 250	250	E.S. (E27/25)	95 ± 2	125 ± 10	75 ± 5	17 6
115, 200, 210, 220, 230, 240, 250	500	G.E.S. (E40/45)	130 ± 5	180 ± 10	115 ± 5	23 0
115, 200, 210, 220, 230, 240, 250	1000	G.E.S. (E40/45)	130 ± 5	180 ± 10	115 ± 5	30 0

\* Light Centre Length—This dimension is from sole plate of cap to centre of filament.  
Objective Average Life: 800 hours.

#### Class B 2

Class B 2 lamps fulfil similar purposes to B 1 lamps, but may be burned in any position, including cap up.

#### Bunch Filament

#### Pear-shaped Bulb

Ratings		Cap	Dimensions		L.C.L.*	Price each
Volts	Watts		Diameter m/m	Ov. Length m/m		
115, 200, 210, 220, 230, 240, 250	500	G.E.S. (E40/45)	130 ± 5	267 ± 8	202 ± 7	s. d. 23 0
115, 200, 210, 220, 230, 240, 250	1000	G.E.S. (E40/45)	130 ± 5	300 ± 9	225 ± 8	30 0

\* Light Centre Length—This dimension is from sole plate of cap to centre of filament.  
Objective Average Life: 800 hours.  
Purchase Tax + 26% of List Price up to 750 watts. Over 750 watts no Purchase Tax.

## MAZDA PROJECTOR LAMPS

### BRITISH STANDARD

#### Epidiascope (Class E)

FOR use in episcopes and epidiascope apparatus for the projection of lantern slides, small solid objects, picture book pages, etc. They are also suitable for spotlight and shop window projectors which have to be rotated through wide angles. These lamps can be used in any position within 45° of the cap down position.



Volts	Watts	Cap	Approx. Dimensions		L.C.L.	Price each	
			Diameter m/m	Ov. Length m/m		s.	d.
115, 200, 210, 220, 230, 240, 250	500	Med. Pre-focus (P28/25)	100 ± 2	135 ± 10	60 ± 0.5	s.	d.
31						0	

Objective Average Life: 100 hours.

Purchase Tax + 2½% of List Price.

#### Micro-Projection (Class F)

THESE lamps have been specially designed to the requirements of micro-projection. Being of low voltage, they can be conveniently operated from batteries or from the mains through a suitable resistance or transformer. Microscope illumination, small home cine-projectors, sound recording, are but few of the many purposes for which these lamps may be used.



Volts	Watts	Cap	Approx. Dimensions		L.C.L.*	Price each	
			Diameter m/m	Ov. Length in/m		s.	d.
6 (a)	30	S.E.S. (E14/23 × 15)	35 ± 2	57 ± 5	47 ± 5	s.	d.
6 (a)	48	S.B.C. (B15d/25 × 18)	35 ± 2	65 max.	40 ± 3	7	6††
12 (a)	24	S.B.C. (B15d/25 × 18)	38 ± 2	60 ± 5	44 ± 5	3	9††
12 (b)	48	S.E.S. (E14/23 × 15)	50 ± 2	70 ± 5	40 ± 3	5	6††
18 (c)	9	M.E.S. (E10/20 × 13)	18 ± 1	36 ± 3	25 ± 2	4	0††

(a) Transverse Filament. (b) Twin Pillar Filament. (c) Round Bulb.  
\* Light Centre Length—This dimension is from sole plate of cap to centre of filament.  
Objective Average Life: † 25 hours. †† 100 hours.  
Purchase Tax + 20% of List Price.

## MAZDA PROJECTOR LAMPS

### BRITISH STANDARD

#### Exciter (Class G)

FOR reproduction in sound film apparatus, a low voltage lamp of high efficiency and robust construction is necessary. The lamps listed below are ideal for this class of work and are manufactured with extreme accuracy and careful attention to such details as the centring of the filament and its luminous intensity so as to comply with the rigid requirements of sound film projection.



B.S.S. E.L. No.	Volts	Amps.	Cap	Approx. Dimensions		L.C.L.	Price each	
				Diameter m/m	Ov. Length m/m		s.	d.
1	8	4	Pre-focus with collar (P15s/19)	25 ± 1	75 ± 3	37.3 ± 0.25	s.	d.
5	10	5		25 ± 1	75 ± 3	37.3 ± 0.25	6	6††
7	10	7.5		25 ± 1	75 ± 3	37.3 ± 0.25	8	6††
—	4	0.75		25 ± 1	48 ± 3	28.5 ± 0.25	6	6†

Objective Average Life: † 50 hours. †† 100 hours.

Purchase Tax + 26% of List Price.

#### Studio Spotlight

For motion picture production



5000 w. 115v.  
Bipost

2000 w. 115v.  
Bipost

Volts	Watts	Cap	Approx. Dimensions		L.C.L.	Price each	
			Diameter m/m	Ov. Length m/m		s.	d.
115, 240	2000	Bi-post	152.5 ± 2	232 ± 6	127 ± 2	s.	d.
115, 240	5000	Bi-post	203 ± 2	335 ± 6	165 ± 2	85	0
						300	0

Objective Average Life: 100 hours.

No Purchase Tax chargeable.







### MINERS' CAP & HANDLAMP BULBS

Approved by the Mines Department and stamped M.D.S.

For use in	Ratings		Diameter		Overall Length		Cap	Price each
	Volts	Amps.	m/m	in.	m/m	in.		
<b>MINES DEPARTMENT, CATEGORY I (B.S.S. except †)</b>								
Hand Lamp	2.5d	1.5	25	0.98	52	2.05	E 14†	1 9
" "	2.5d	1.75	25	0.98	50	1.97	953	
" "	4.0d	0.75	26	1.02	52	2.05	E 14†	1 9
" "	4.0	1.0	28	1.10	50	1.97	953	
Cap Lamp	4.0	0.55 & 0.55	25	0.98	44	1.73	E 14†	1 9a
" "	4.0	0.55 & 0.55	25	0.98	47c	1.85	S11s/23†	
<b>KRYPTON FILLED</b>								
Hand Lamp	2.5d	1.5	18	0.71	43.5	1.70	953	2 0a
" "	2.5d	1.75	18	0.71	45.5	1.75	E 14	
" "	4.0d	0.75	18	0.71	43.5	1.70	953	2 0a
" "	4.0d	1.0	18	0.71	45.5	1.75	E 14	
<b>MINES DEPARTMENT, CATEGORY 2</b>								
Cap Lamp	2.0	0.85	26	1.02	44	1.73	E 14	1 9
" "	2.0	1.0	18	0.71	31	1.22	E 10	
" "	2.5	0.5	18	0.71	31	1.22	E 10	1 11
" "	2.5	1.0	21	0.83	34b	1.34	E 10	
" "	2.5	1.0	25	0.98	46.5b	1.85	953	2 1a
" "	2.5	1.0	26	1.02	44	1.73	E 14	
" "	2.5	1.0 & 0.75	25	0.98	49	1.93	B 15d/21	2 9
" "	2.5	1.25	21	0.83	34b	1.34	E 10	
" "	4.0	0.65	18	0.71	31	1.22	E 10	1 11
" "	4.0	0.8 & 0.8	25	0.98	49	1.93	B 15d/21	

E14=E14/23×15=S.E.S. E10=E10/13=M.E.S. 953=Special S.C.C. B15d/21=S.B.C. S11s/23=Peg.  
 (a) May be supplied Pearl at same price. (b) Round bulb. (c) With pip. (d) May be supplied with fuse in cap.  
 Purchase Tax not chargeable.

### MAZDA SWITCHBOARD INDICATOR LAMPS

Volts †	Watts	Approx. Dimensions		Cap	Price each
		Diameter m/m	Length m/m		
100/130 200/260	}	28	56	B.C. (B 22/21)	2 0

† One lamp only is available in each of these voltage ranges, and will be marked 100/130 or 200/260 volts respectively. Lamps are marked "Switchboard Indicator" and no wattage specified.  
 Purchase Tax + 26% of List Price.

## MAZDA FLASHLIGHT LAMPS

Standard Cap M.E.S. (E 10/20 × 13)

Vacuum

BRITISH FLASHLAMPS				AMERICAN FLASHLAMPS			
Volts	Amps.	Diameter m/m	Price* each	Volts	Amps.	Diameter m/m	Price † each
2	0.3	11	8d.	2.5	0.15	11	5½d.
2	0.6	15	8d.	2.5	0.3	11	5½d.
2.5	0.2	11	3½d.	3.8	0.3	11	5½d.
2.5	0.3	11	3½d.	4	0.3	11	5½d.
3.5	0.15	11	3½d.	4.5	0.3	11	5½d.
3.5	0.3	11	3½d.	5	0.15	15	8d.
4	0.3	11	3½d.	6	0.5	15	8d.
4.5	0.3	15	3½d.	6.2	0.3	15	8d.
6.2	0.3	15	6d.	2.2	0.25	Lens End	11d.
				2.2	0.15	Lens End	11d.

\* Purchase Tax + 22% of List Price.

† Including Purchase Tax.

### MAZDA RADIO PANEL LAMPS

Volts	Amps.	Approx. Dimens.		Cap	Bulb	Finish	Price each	
		Diam. m/m	Length m/m				s.	d.
5	0.15	12	—	M.E.S.	Round	Clear	1	0
6	0.04	11	—		Round		1	0
6	0.06	11	—		Round		1	0
6.2	0.3	15	—		Round		6	
6.3	0.64	15	—		Round		1	0
6.5	0.3	11	—		Round		7½	
10	0.2	18	—		Round		1	6
4	0.3	10	30		Tubular		1	0
6.2	0.3	10	30		Tubular		7½	
6.3	0.15	10	30		Tubular		7½	
6.5	0.3	10	30		Tubular		7½	
19 (a)	0.09	10	28		Tubular		2	2

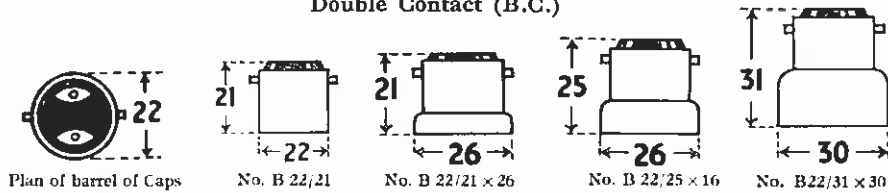
(a) Black dot on end of bulb.

Purchase Tax + 22% of List Price.

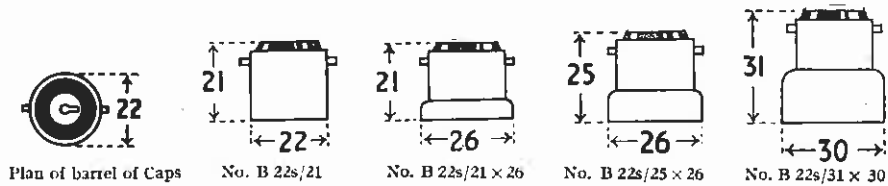
## LAMP CAPS

The illustrations are approximately half full size with normal dimensions in millimetres.

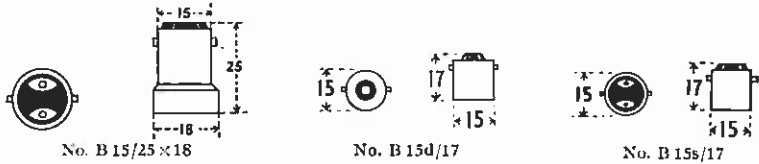
### BAYONET CAPS Double Contact (B.C.)



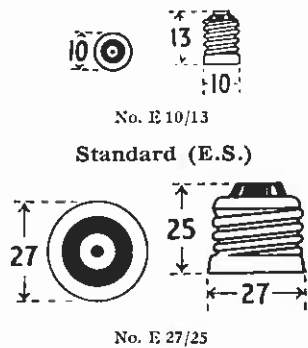
### Centre Contact (C.G.)



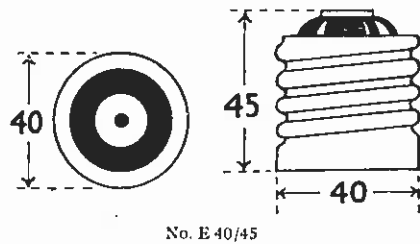
### SMALL BAYONET CAPS Double Contact (S.B.C.)



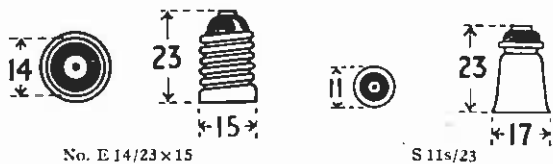
### EDISON SCREW CAPS Miniature (M.E.S.)



### Gollath (G.E.S.)



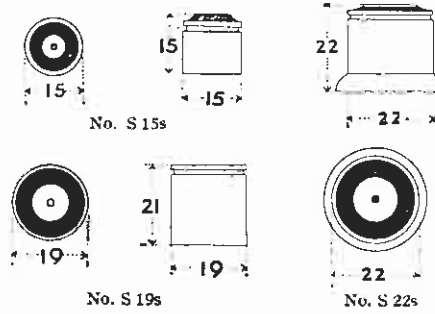
### MINERS' HANDLAMP CAPS



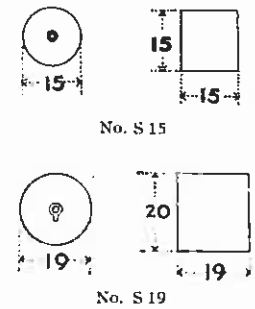
## LAMP CAPS (CONT.)

### CAPS FOR DOUBLE-ENDED TUBULAR LAMPS

#### Centre Contacts



#### Clip Contacts

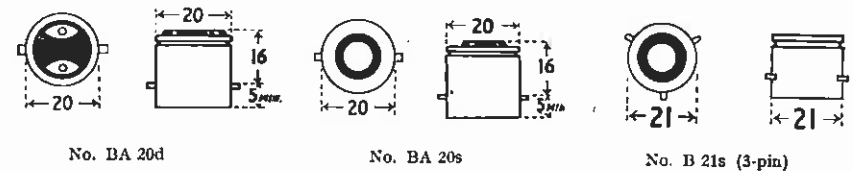


### BOSCH CAPS

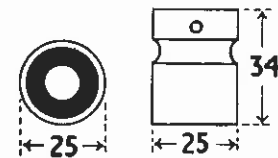
#### Double Contact

#### Centre Contact

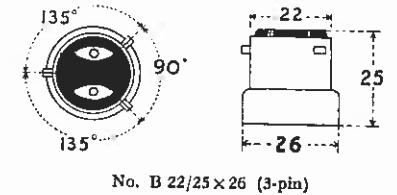
### THREE PIN CENTRE CONTACT CAP (3-pin C.G.)



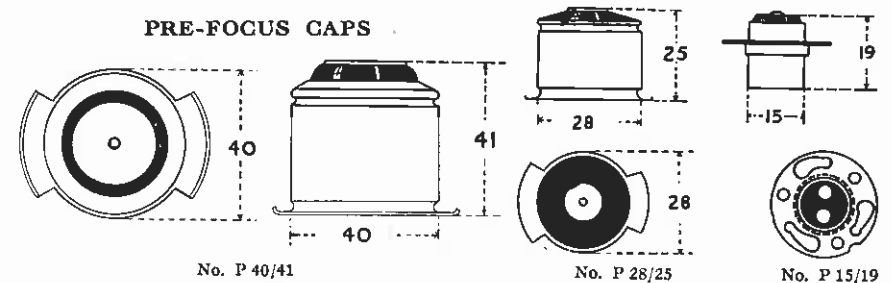
### HOLLOW TUBULAR CAP



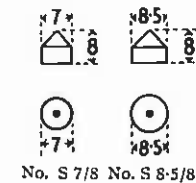
### THREE PIN BAYONET CAP



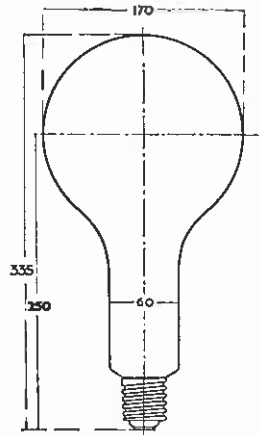
### PRE-FOCUS CAPS



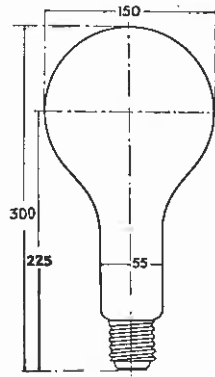
### FESTOON LAMP CAPS



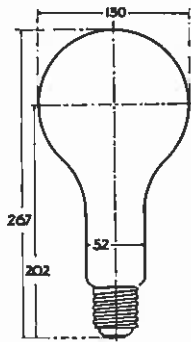
# OUTLINES—DIMENSIONS IN MILLIMETRES



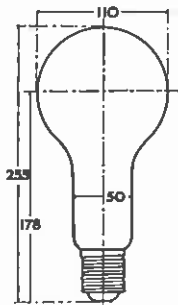
1500 w. G.E.S. Cap.  
G.F. Clear.



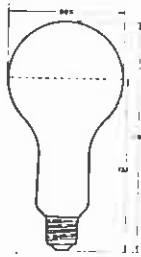
1000 and 750 w. G.E.S. Cap.  
G.F. Clear.



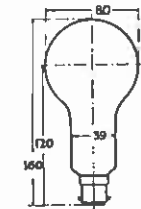
500 w. G.E.S. Cap.  
G.F. Clear.



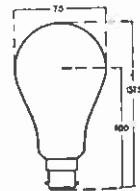
300 w. G.E.S. Cap.  
G.F. Clear.



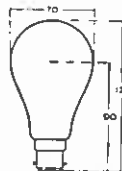
200 w. E.S. Cap.  
G.F. Clear.



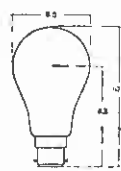
150 w. B.C. Cap.  
G.F. Clear.



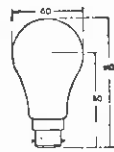
100 w. B.C. Cap.  
Pearl, G.F. Clear, and  
Coiled-Coil.



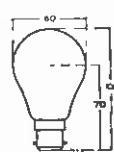
75 w. B.C. Cap.  
Pearl and  
Coiled-Coil.



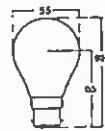
60 w. B.C. Cap.  
Pearl, G.F. Clear,  
G.F. Traction,  
and Coiled-Coil.



40 w. B.C. Cap.  
Pearl, G.F. Clear,  
G.F. Traction,  
and Coiled-Coil.

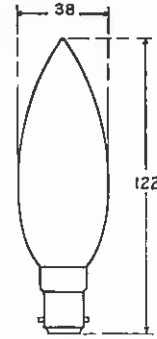


25 w. B.C. Cap.  
Pearl, G.F. Clear,  
and Vac. Clear.

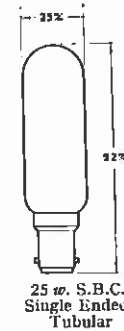


15 w. B.C. Cap.  
Pearl, Vac.  
Clear.

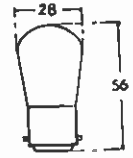
# OUTLINES—DIMENSIONS IN MILLIMETRES



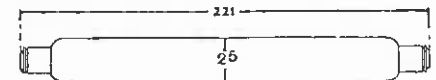
25 w. and 40 w.  
S.B.C. Cap  
Plain Candle.



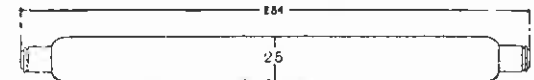
25 w. S.B.C.  
Single Ended  
Tubular



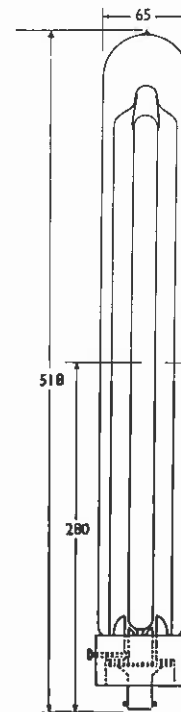
15 w. B.C. Cap.  
Pygmy Sign Bulb.



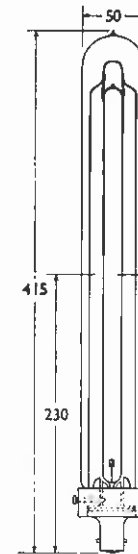
30 w. S.C.C. Cap. Double Ended Tubular.



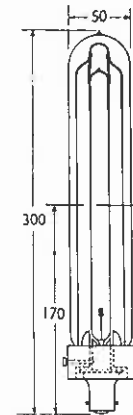
30 and 60 w. S.C.C. Cap. Double Ended Tubular.



140 w. B.C.  
Ceramic Cap  
Sodium Vapour.



85 w. B.C.  
Ceramic Cap  
Sodium Vapour.

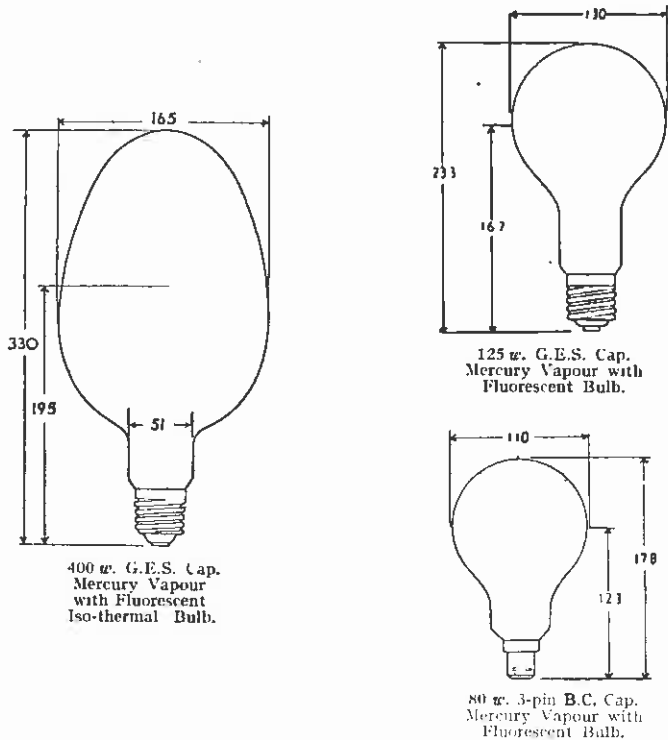
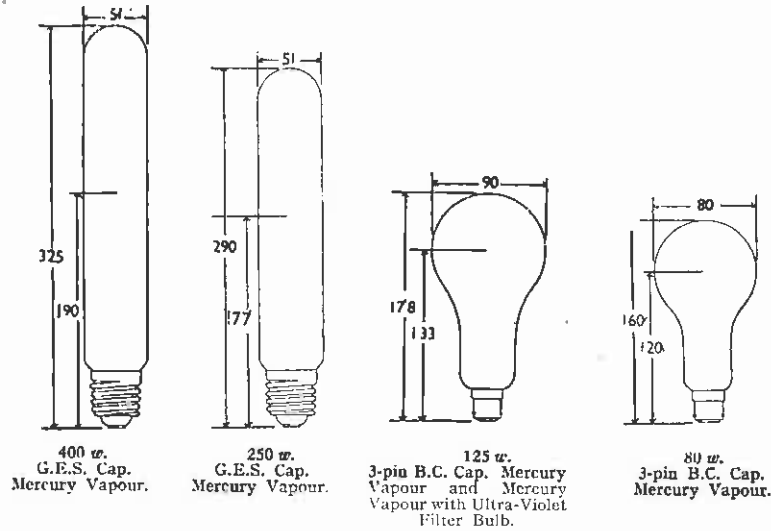


60 w. B.C.  
Ceramic Cap  
Sodium Vapour.

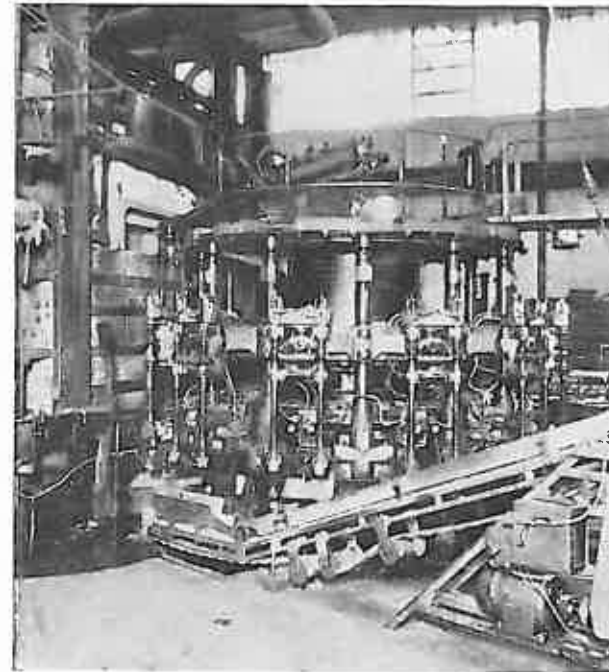


45 w. B.C.  
Ceramic Cap  
Sodium Vapour.

## OUTLINES—DIMENSIONS IN MILLIMETRES



**VIEWS OF THE BTH WORKS**, where every operation in the manufacture of Mazda Lamps is carried out. . . . .



*This automatic bulb-blowing machine in the BTH Glass Works at Chesterfield can produce, without human intervention, 65,000 perfect Mazda bulbs in 24 hours. It is an awe-inspiring spectacle to watch this gigantic machine taking in molten glass at the top and ejecting finished bulbs at the rate of 45 a minute.*

*On this highly-ingenious and almost human machine are carried out all the many processes involved in capping and soldering of leading-in wires. The operation of soldering, with tiny blobs of solder and a modicum of flux, is a fascinating lesson in micro-tinkering. There is high romance as well as high efficiency in automatic production of this kind.*



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**LIGHTING ADVISORY SERVICE**

The Lighting Advisory Service—backed by BTH Research and all the resources of a great Company manufacturing quality lighting equipment—is freely at your disposal.



